## HARBOR DEFENSES.

PLANTING DEADLY EXPLOSIVES TO PROTECT THE COAST.

Vast Amount of Labor, Skill, Time and Money Is Needed to Complete a Thorough System of Coast Defense Advantages of the Torpedo.

There is a very widely diffused idea among people who have not made a special study of the subject that torpedoes, and torpedoes alone, can defend any harbor against a hostile attack.

The destructive effects of a few torpedo explosions under the most favorable circumstances have caused this branch of warfare to assume an undue importance, an importance wholly unwarranted by the results and created by generalizations from isolated instances, entirely without regard to the natural limitations of the efficiency of any torpedo system, however perfect.

It is the object of this article to endeavor to show the actual capabilities of torpedoes, the results attainable by their use, and the restrictions inevitably attending their indefinite expansion into a

complete system of defense. Great guns must play an important part in all harbor defense, but for the proper and adequate defending of navigable chennels bouyant mines, exploded

by contact, are the mainstays. With their use, however, a host of perplexing conditions arise, the twisting and wearing of the cables and moorings, the depression due to the currents, the danger of sympathetic explosions, the leaking of the cases, the obstruction of the channel for friendly navigation-all these have to be overcome as best they may be.

fice one or more, their closure by means of self acting torpedoes is easy.

are useless, for in order to be thorough- elected to the Massachusetts legislature. ly reliable they must be as dangerous to He served three terms on the floor of the a friend as to an enemy. Furthermore, their planting, and much more, their removal upon the cessation of hostilities is to be accomplished only at great risk. The limited applicability of ground fense; the buoyant mine and the dirig- but thirty-one years of age. He was ible torpedo, although the latter properly forms a distinct class.

pled with the inevitable shifting of the | had. mines from various causes, leads directly to the conclusion that a great number of mines must be relied upon rather | come secretary of state in Mr. Fillmore's than precision in their manipulation.

fail to strike a mine hard enough to senate, since his retirement from which

current many cables are needed, and to avoid confusion some regular method of planting must be adopted. It is convenient to plant the torpedoes in groups capable of being fired by judgment, these groups constituting the units, which are combined into the larger unit whose limit is generally the number of mines that can be operated through a single seven core cable.

The grand groups thus formed are arranged in lines, the latter radiating in such a manner from the operating casements that the separate units can be easily located by triangulation. The intervals between the lines are filled with skirmish lines—single mines strung on a single conductor cable and exploding by roofs and spires of the intermediate contact only.

harbor defense have been tried in different countries with varying degrees of success. For accuracy of direction and range of destructive power the Sims-Edison fish torpedo is perhaps unexcelled. Extended trials at Willet's point have satisfactorily demonstrated its ability to carry 200 pounds of dynamite to a distance of two miles at a speed of about twenty miles per hour. The charge is exploded upon contact with the vessel or by the action of the operator on shore.

The dirigibility of the torpedo is perfeet. It follows its prey as though endowed with life, swerving to the right or left as necessary, diving under booms or other obstructions, cutting through nets, and never slackening its great speed until the end of its cable is reached. At present a two mile radius is deemed sufficient, although this could be increased if necessary by enlarging the "fish" itself .- Cosmopolitan

Confederate Camp Flags. The Confederate stars and bars were in 1863 supplemented by the camp flag. This was in size and shape like the other. except that it was white, with no stripes, and the battle flag in the upper corner next the staff. It was found deficient in actual service in that, displaying so much white, it was sometimes apt to be mistaken for a flag of truce, and on Feb. 24, 1865, it gave place to the last flag of

the Confederacy, the outer half being a red vertical bar. Appearing so late in the war, it was not so familiar as the others-in fact, it was comparatively little known.-New Orleans Times-Democrat. The Largest Ocean Steamers.

The largest passenger steamships in commission are the sister ships City of New York and City of Paris, each having 10,449 tons displacement. The steamship having the largest accommodations for cabin passengers is the Cunarder Etruria, which can carry 550. The longest steamship is the Teutonic, 565

feet.—New York Advertiser. Bowknots Still in Favor. The rage for bowknots shows no signs of abating. Easter gifts were devised of them in every form.

SEVEN LIVING EX-SPEAKERS. The Oldest of the Number Is Robert C.

Hon. Robert C. Winthrop, of Boston, recently celebrated the eighty-third anniversary of his birth. There is perhaps no man in the United States today in the storehouse of whose mind are treasured more recollections of celebrated Americans and notable events. Mr. Winthrop enjoys the distinction of having been acquainted with every president of the United States except Washington and Jefferson. He visited Charles Carroll, the last surviving signer of the declaration of inde-

pendence, in 1832, and four years later he was the guest of Hon. Paine Wingate, then the only living ex-member of the first senate the United States. There are now

alive seven exspeakers of the national house of representatives. HON. R. C. WINTHROP.

They are Robert C. Winthrop, of Massa chusetts; Galusha A. Grow, of Pennsylvania; James G. Blaine, of Maine; J. Warren Keifer, of Ohio; John G. Carlisle, of Kentucky; Thomas B. Reed, of Maine, and Nathaniel P. Banks, of Massachusetts. Of these Mr. Winthrop is the oldest. By a remarkable coincidence six of this distinguished septet met in Washington on a recent occasion.

Hon. Robert C. Winthrop early in life agreeably surprised his friends and acquaintances. His youthful training was such as would have fitted him for a career of luxury and social successes, but this was not to his liking and he devoted channels, and it is practicable to sacri- himself to affairs of state. He became a member of the Whig party when it was still in its infancy. His ability Where a channel, however, cannot be gained almost immediate recognition, entirely abandoned, self acting mines and at the age of twenty-four he was house and three terms as speaker. Soon after the election of General William Henry Harrison to the presidency Hon. Abbott Lawrence resigned his seat in congress from the Boston district and mines is well known. Torpedo science Mr. Winthrop became his successor. furnishes two other types for harbor de- When he took his seat in 1840 he was afterward elected speaker, and it is said that he made as good a presiding officer Great nicety in planting torpedoes (Henry Clay not excepted) as the nacannot be expected, and this fact, cou- | tional house of representatives has ever

In 1850 Daniel Webster resigned his seat in the United States senate to becabinet, and Governor Briggs appointed Despite the number of mines, a vessel Mr. Winthrop to the vacancy thus creattempting to pass the lines may still ated. He served with distinction in the work the circuit closer. To meet this he has taken little part in active politics. contingency a perfect torpedo system Mr. Winthrop is one of the oldest living must provide means for firing the mines | graduates of Harvard. His name is inat will in groups of three or four. It | timately associated with many events of will always be possible to accurately lo- national importance. He delivered the cate a vessel within a dangerous space oration at the laying of the cornerstone of this number of mines, and their simul- of the Washington monument, July 4, taneous explosion will have the desired | 1848, and was also to have been the orator when it was unveiled, Feb. 22, 1885, To furnish a passage for the electric but illness kept him away, so that his address had to be read by some one else. He retains his health and strength to a

remarkable degree. The Home of Henry Clay.

At Ashland, the famous home of Henry Clay, the great granddaughter of that noted Kentucky statesman recently became the wife of a Louisville lawyer.

The house, a spacious red brick pile, covered in many places with English ivy planted by Mr. Clay himself, is upon a gentle eminence. From the front door a fine view is had of Lexington, a mile distant, the oldest city in the state, and beyond, across the hazy domes and town, in the Lexington cemetery, the Many forms of movable torpedoes for monument to Clay erected by the state



ASHLAND. the landscape. At the back of the house, circumscribing a tennis court, is a picturesque walk, hidden from view by a rich tangle of oldtime garden shrubs and flowers. This path was the favor-

ite walk of Mr. Clay. Ashland is named for Henry Clay's first home in Hanover county, Va. His granddaughter, Miss Annie Clay, married Major Henry Clay McDowell, one of the most prominent of Kentuckians and owner of many of the finest horses in the country. It is the oldest daughter of this couple, Miss Nannette Mc-Dowell, who has just been married to Dr. F. S. Bullock, of Louisville. The bride, who is a dainty, diminutive little "blonde cendree," a simple hearted, big brained womanly woman, was a flower in her sumptuous robes of rich cream silk heavily brocaded in arabesques of satin. Duchesse lace caught here and there with orange blossoms decked profusely her skirt and corsage. With her roses she carried the same point lace handkerchief her mother had borne to

the altar. Bishop T. U. Dudley performed the ceremony, assisted by Rev. E. H. Ward.

Deer Come High. Every stag that falls in a Scottisa forest, it has been calculated, costs the lessee from thirty-five to fifty pounds, but, as what is termed "butcher's meat," these animals, if placed on the market, would not yield to those who killed them more than sixpence per

Actors were so much admired by the late Dr. Morell Mackengle that he never charged them for medical advice.

ALL STOMACH TROUBLES





Rev. William Hollinshed Of Sparta, N. J., voluntarily says:

"To Whom it May Concern: "Unasked I deem it my duty to a suffering humanity whose bodies and souls I would have healthy, to tell them of the value of Hood's Sarsaparilla. While living in Ohio one of my children was greatly

Afflicted With Boils having 30 on her limbs, and being unable to walk. I had heard of Hood's Sarsaparilla, and bought a bottle, half of which cured entirely. Two years after, another child was afflicted as badly. I used the other half bottle of Hood's Sarsaparilla with like results. About four years after, the child first afflicted was again tormented like Job, and bought a bottle (on Sunday at that) and again a cure. I gave some of the medicine to a poor woman and two children; they were helped as were mine. Through a testimo nial sent to C. I. Hood & Co., inquiries came from all the country, asking if it was a 'bona fide' testimonial, and of course I wrote all that it was, and have the knowledge of

Scores and Scores

Of persons helped or cured by Hood's Sarsa parilla. Mild cases of rheumatism have yielded to it. Biliousness and bad liver have been corrected in my own family. This is the only patent medicine I have felt like praising. I speak not for C. I. Hood, but for the Jobs who are impatient and are tormented beyond endurance. Nothing I know of will cleanse the blood, stimulate the liver, or clean the stomach so perfectly as

Hood's Sarsaparilla Any person wishing to know more, enclosing a stamp will be informed. Yours for the health, happiness and virtue of humanity." WILLIAM HOLLINSHED, pastor of Presbyterian church, Sparta, N. J.

Hood's Pills cure habitual constipation.

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List of Patents

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Rey. William Hollinshed, Pastor of the Presbyterian Church of Sparta, N.J., voluntarily writes in favor of Hood's Sarsaparilla. He says: "No-

thing I know of will cleanse the blood. At Lowest Newark and N.Y. Prices stimulate the liver or clean the stomach like this remedy. I know of scores and scores who have been helped or cured

The highest praise has been won by Hood's Pills for their easy, yet efficient, action. -Advt.

Specimen Cases S. H. Clifford, New Castle, Wis., was troubled with Neuralgia and Rheumatism, his stomach was disordered, his Liver was affected to an alarming degree, appetite fell away, and he was terribly reduced in flesh and strength, Three bottles of Electric Bitters cured him. Edward Shephard, Harrisburg, Ill., had a running sore on his leg of eight years' standing. Used three bottles of Electric Bitters and seven boxes of Bucklen's Arnica Salve, and his leg is sound and well. John Speaker, Catawbe, O., had five large Fever Sores on his leg; doctors said he was incurable. One bottle of Ricctric Bitters and one box Bucklen's Arnice Balve cured him entirely. Sold at Gro. M. Wood's

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At the next counter to these reduced Spring Dress Goods you will find a large and varied stock of Parasols and Umbrellas, from \$1 up to \$12.50. We sell a 24-in. Gloria, warranted in wearing qualities, for \$1.25. The Club Free Deliveries. Coaching Parasol—the most popular this season — costs from \$2 to \$6.50. Another or plain Surah with one or two ruffles. It sells at \$3.50.

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